

**IDAHO STANDARDS ACHIEVEMENT TESTS**  
**Mathematics**  
**Test Blueprint - Grade 8**

Grade	Standard	Goal	Objective Assessed	Mathematics Distribution
8	1 Number and Operation	1.1 Understand and use numbers	1.1.1 1.1.2 1.1.3 1.1.4 1.1.5 1.1.6 1.1.7	20-24%
		1.2 Perform computations accurately	1.2.2 1.2.3 1.2.4 1.2.6	
		1.3 Estimate and judge reasonableness of results	1.3.3	
	2 Concepts and Principles of Measurement	2.1 Understand and use customary and metric measurements	2.1.1 2.1.4 2.1.5 2.1.6	13-16%
		2.2 Apply the concepts of rates, ratios, and proportions	2.2.1 2.2.2	
		2.3 Apply dimensional analysis	2.3.1	
	3 Concepts and Language of Algebra and Functions	3.1 Use algebraic symbolism as a tool to represent mathematical relationships	3.1.1 3.1.2 3.1.3	27-31%
		3.2 Evaluate algebraic expressions	3.2.1 3.2.2 3.2.3	
		3.3 Solve algebraic equations and inequalities	3.3.1 3.3.2	
		3.4 Understand the concept of functions	3.4.1	
		3.5 Represent equations, inequalities and functions in a variety of formats	3.5.1	
		3.6 Use patterns to represent problems	3.6.1	
	4 Concepts and Principles of Geometry	4.1 Apply concepts of size, shape, and spatial relationships	4.1.1 4.1.2 4.1.3 4.1.4 4.1.5	18-22%
		4.3 Apply graphing in two dimensions	4.3.1	

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<b>8</b>	5 Data Analysis, Probability, and Statistics	5.1 Understand data analysis	5.1.1	13-18%
		5.2 Collect, organize, and display data	5.2.1	
		5.3 Apply simple statistical measurements	5.3.1	
		5.4 Understand basic concepts of probability	5.4.2	
		5.5 Make predictions or decisions based on data	5.5.1	
				<b>Total = 100%</b>